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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,663	08/08/2003	Chien-Sheng Yang	ADTP0087USA	1662
27765	7590 01/16/2004		EXAMINER	
NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE)			ERDEM, FAZLI	
P.O. BOX 506 MERRIFIELD			ART UNIT	PAPER NUMBER
			2826	
			DATE MAIL ED. 01/16/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Application No.	Applicant(s)			
•		10/604,663	YANG, CHIEN-SHENG			
	Office Action Summary	Examiner	Art Unit	_		
		Fazli Erdem	2826			
Period fo	The MAILING DATE of this communication reply	n appears on the cover sheet	vith the correspondence address	_		
THE Exte after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicative period for reply specified above is less than thirty (30) days begind for reply is specified above, the maximum statutory interest or eply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of the period will apply and will expire SIX (6) Mc statute, cause the application to become	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
1)🖂	Responsive to communication(s) filed on	08 August 2003.				
2a)□	This action is FINAL . 2b)⊠	This action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-23</u> is/are pending in the applic 4a) Of the above claim(s) is/are wit Claim(s) <u>1-11</u> is/are allowed. Claim(s) <u>12-17</u> is/are rejected. Claim(s) <u>18-23</u> is/are objected to. Claim(s) are subject to restriction a	hdrawn from consideration.				
Applicati	ion Papers					
9)[The specification is objected to by the Exa	aminer.				
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)						
	The oath or declaration is objected to by to the case of the case	ne Examiner, Note the attach	ed Office Action or form PTO-152.			
		anaisma maismita ann de a OS II O O	0.440(.) (1) (0			
* S 13)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents of the priority documents of the certified copies of the application from the International Base the attached detailed Office action for acknowledgment is made of a claim for doruce a specific reference was included in the CFR 1.78. 1. The translation of the foreign language acknowledgment is made of a claim for doructerence was included in the first sentence was included in the first sentence.	ments have been received. ments have been received in e priority documents have bee ureau (PCT Rule 17.2(a)). a list of the certified copies no mestic priority under 35 U.S.C ne first sentence of the specifi e provisional application has mestic priority under 35 U.S.C	Application No In received in this National Stage t received. It is \$ 119(e) (to a provisional application) cation or in an Application Data Sheet. Deen received. It is \$ 120 and/or 121 since a specific			
Attachmen						
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94) nation Disclosure Statement(s) (PTO-1449) Paper N	8) 5) 🔲 Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-11 allowed.
- 2. Claims 18-23 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 12-17 rejected under 35 U.S.C. 103(a) as being unpatentable over Fujii et al. (6,263,734) in view of Kaneko (5,239,870) further in view of Yoshida et al. (6,293,149).

Regarding Claims 12-17, Fujii et al. disclose a piezoelectric acceleration sensor and method of detecting acceleration and manufacturing method thereof where an acceleration sensor comprises a longitudinal effect type detection unit and a lateral effect type detection unit. The longitudinal effect type detection unit comprises a longitudinal effect type piezoelectric element comprising piezoelectric body of a thin film, a first electrode, and a second electrode. A detection circuit detects an acceleration in a predetermined direction, based on an output of both the longitudinal effect type detection unit and the lateral effect type detection unit. Fujii et al. fail to disclose the required cantilever and the required piezoresistor structures. However, Kaneko discloses a semiconductor acceleration sensor with reduced cross axial resistivity where

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the required cantilever structure is disclosed. Furthermore, Yoshida et al. disclose an acceleration sensor element and method of its manufacture where the required piezoresistor is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required cantilever and the required piezoresistor structures in Fujii et al. as taught by Kaneko and Yoshida et al. respectively in order to have a semiconductor acceleration sensor with higher performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (703) 305-3868. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Starting February 4, 2004, Examiner Fazli Erdem's phone number will be changed to (571) 272-1914 and his SPE Nathan Flynn's phone number will be changed to (571) 272-1915 Art Unit: 2826

FE January 12, 2004